**Abstracts**

**P612** THE USE OF PHYSICAL RESTRAINTS ON CHILDREN: A RE-EVALUATION AFTER A DECADE

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**Background** Physical restraint (PR), although controversial, is perceived as necessary for safe medical procedures. But also, this practice has important physical, psychological, social, ethical, legal and human rights consequences. In Turkey, pediatric nurses have been shown to use the restriction frequently.

**Aim** This study aimed to re-evaluate Turkish pediatric nurses’ views and attitudes towards physical constraints after a decade.

**Method** This descriptive and cross-sectional study was carried out in two major hospitals in a capital city of Turkey between June-December 2018. The sample of the study consisted of 321 patients over the past week. This rate is lower than the previous study and this difference is statistically significant (p<0.05). The most commonly used PR methods in 2007 and 2018 are wrist (96.7%; 44.9%), ankle (81%; 28.8%), chest restraint by sheet (14%; 7.6%), respectively. There has also been a significant decrease in the rate of PR-related complications in parallel to the decrease in PR application rates and increased awareness of patient safety (2.3% and 23.2%, respectively). In the previous study, none of the nurses had received written or verbal consent from children or parents, while in the current study, 19.7% of nurses reported that they received consent from the child or their parents. In 2018, education and clinics are still associated with higher PR rates. It was determined that there is still no PR procedure in most of the pediatric clinics (100% and 50.7% in 2007 and 2018, respectively).

**Conclusion** Although there is a decrease in the rate of usage of physical restraints by Turkish pediatric nurses, important issues such as obtaining informed consent, informing and establishing protocols related to PR are still not at the desired level. Actions are needed to reduce the use and complications of physical restrictions including the attention of nurse staffing and education on the use of restrictions.

**P615** PARENTS’ OPINION ON VACCINATION

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**Background** The objective was to assess modern parents’ attitude and the degree of their awareness of vaccination issues using a specially designed questionnaire. The vaccination issues are receiving close attention as scientists so medical practitioners. To study of the reasons for the rejection of vaccination has become particularly relevant in recent decades due to the anti-vaccination movement and outbreak in some countries.

**Materials and methods** The anonymous survey of 360 parents aged from 19 to 40 years old who were taking care of their children undergoing inpatient treatment was carried out. The selection of respondents was carried out by a random, continuous method. The questionnaire contained 32 questions with suggested answers to questions regarding parents’ awareness and their attitude towards vaccinations in general.

**Results** The survey findings showed that 78.3% children were partly or fully vaccinated, whereas 21.7% children were not vaccinated. A total of 79% of parents believe that
vaccination is the most effective method of preventing infectious diseases. The majority of parents (80%) understand that vaccinated children are less likely to develop severe illness than those who have not been vaccinated. More than half of respondents (60%) are not satisfied with the quality of information about vaccinations obtained from the doctor.

Conclusion The findings suggest that the majority of parents have a generally positive attitude toward vaccination and consider it necessary. However, respondents showed insufficient awareness of vaccination problems. Therefore, educational events should be planned and new methods of work should be developed to raise awareness about vaccination among parents.

Background The objective was to determine the approach of early detection immune perturbation in the children living under exposure to organic compounds with immunotoxicity. Although the impact of man-made environmental factors on the immune system is proven by clinical and immunological findings, many issues remain unsolved. Comprehensive studies analyzing humoral and cellular immunity are extensive, and few studies addressed definition of screening examination method.

Material and methods The comprehensive profound examination of 429 children at the age of 13–15 years living near the oil-refining complex has been carried out. All children were divided into groups based on the degree of man-made environmental factors impact and the ratio of echostructure changes in the spleen. The standard complex of clinical laboratory diagnostic technique was used in the presented study.

Results All the examined children have been divided into two groups. 1st group comprised 256 children who had significant ultrasonic changes of the spleen (multiple hypoechoic homogeneous inclusions throughout the ultrasonic section of the organ). In the 2nd group (273 children) the ultrasonic examination had no disturbances of spleen (echostructure was homogeneous and fine-gritted). The chemical and analytical analysis of children’s blood of children have been obtained statistically significant differences of the number of indicators for immune profile of children without disorders of spleen’s echostructure (2nd group) vs the 1st group (p<0.05). It was determined that children living in areas with technogenic pollution had significantly increased expression of CD19 + receptor and CD25 + receptor on T-lymphocytes (by relative and absolute measure) compared to the children’s group living within the territory of minimal technogenic pollution (p<0.05). The cause-effect relations between the existing deviations of the immunograms and the content of ecotoxicanants in the blood were proved by the mathematical model method.

Conclusion The diagnostic value of spleen’s ultrasound spleen examination with the determination of the changes type in the parenchymatous tissue was determined and can be recommended as a screening method for assessment the impact of man-made environmental factors on the immune system of children living in urban areas.

Introduction Primary immunodeficiency disorders (PIDs) in children are genetic diseases that affect adaptive or innate immunity. The importance and nature of the clinical signs depend on the deficit function predominantly within the immune system.

Objective To study the epidemiological, clinical, paraclinical, therapeutic and evolutionary characteristics of PID in children.

Patients and methods A retrospective study of 16 cases of primary immunodeficiencies (PIDs) of the child collected at the pediatric emergency and resuscitation department Hedi Chaker University Hospital Sfax over a period of 15 years (2004–2019).

Results 14 boys and 2 girls, mean age 3 years (range 2 months to 10 years). A notion of consanguinity was present in 15 cases. The respiratory manifestations were revealing in 9 cases. Five patients had impaired expression of HLA class II molecules, 4 patients had agammaglobulinemia, 5 patients had chronic septic granulomatous disease, 2 patients had hyper IgM syndrome and one patient had ataxia telangiectasia. Therapeutically all our patients have benefited from symptomatic treatment based on veinoglobulins. The outcome was favorable in 6 patients, one patient had hematopoietic stem cell transplantation, 4 patients had frequent hospitalisations for infections, and 5 patients had died.

Conclusion A better knowledge and characterization of the different immunodeficiencies allows an improvement of the care of these patients both preventive and curative, adapted to the deficit, as well as a more precise genetic advice.

Objective To study the clinical, therapeutic and progressive features of systemic lupus erythematosus (SLE) in children.

Patients and methods A retrospective study of 5 cases of childhood SLEs collected at the Pediatric Emergency and Resuscitation Department Hedi Chaker University Hospital Sfax over a period of 13 years (2006–2018).

Results These are 3 girls and 3 boys. The age of onset of symptomatology ranged from 9 years to 13 years. The telltale